

Sequence listing

<110> SWITCH Biotech AG

<120> Polypeptides or nucleic acids encoding these of a family of G-protein coupled receptors and their use for the diagnosis or treatment of disorders, for example skin disorders and their use for the identification of pharmacologically active substances

<130> S34321US1

<160> 21

<170> WORD6.0, PC-DOS/MS-DOS

<210> 1

<211> 331

<212> PRT

<213> Mus musculus

<400> 1

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Gly Ser Ile Asn Ile Arg Ile Leu Ile Pro Lys Leu Met Ile Ile Ile
35 40 45

Phe Gly Leu Val Gly Leu Met Gly Asn Ala Ile Val Phe Trp Leu Leu
50 55 60

Gly Phe His Leu Arg Arg Asn Ala Phe Ser Val Tyr Ile Leu Asn Leu
65 70 75 80

Ala Leu Ala Asp Phe Leu Phe Leu Leu Ser Ser Ile Ile Ala Ser Thr

85

90

95

Leu Phe Leu Leu Lys Val Ser Tyr Leu Ser Ile Ile Phe His Leu Cys
100 105 110

Phe Asn Thr Ile Met Met Val Val Tyr Ile Thr Gly Ile Ser Met Leu
115 120 125

Ser Ala Ile Ser Thr Glu Cys Cys Leu Ser Val Leu Cys Pro Thr Trp
130 135 140

Tyr Arg Cys His Arg Pro Val His Thr Ser Thr Val Met Cys Ala Val
145 150 155 160

Ile Trp Val Leu Ser Leu Leu Ile Cys Ile Leu Asn Ser Tyr Phe Cys
165 170 175

Ala Val Leu His Thr Arg Tyr Asp Asn Asp Asn Glu Cys Leu Ala Thr
180 185 190

Asn Ile Phe Thr Ala Ser Tyr Met Ile Phe Leu Leu Val Val Leu Cys
195 200 205

Leu Ser Ser Leu Ala Leu Leu Ala Arg Leu Phe Cys Gly Ala Gly Gln
210 215 220

Met Lys Leu Thr Arg Phe His Val Thr Ile Leu Leu Thr Leu Leu Val
225 230 235 240

Phe Leu Leu Cys Gly Leu Pro Phe Val Ile Tyr Cys Ile Leu Leu Phe
245 250 255

Lys Ile Lys Asp Asp Phe His Val Leu Asp Val Asn Leu Tyr Leu Ala
260 265 270

Leu Glu Val Leu Thr Ala Ile Asn Ser Cys Ala Asn Pro Ile Ile Tyr

DRAFT VERSION 1.0 OF THE PROTEIN SEQUENCE

100 105 110

Leu Ser Leu Leu Thr Ala Ile Ser Thr Gln Arg Cys Leu Ser Val Leu

115 120 125

Phe Pro Ile Trp Phe Lys Cys His Arg Pro Arg His Leu Ser Ala Trp

130 135 140

Val Cys Gly Leu Leu Trp Thr Leu Cys Leu Leu Met Asn Gly Leu Thr

145 150 155 160

Ser Ser Phe Cys Ser Lys Phe Leu Lys Phe Asn Glu Asp Arg Cys Phe

165 170 175

Arg Val Asp Met Val Gln Ala Ala Leu Ile Met Gly Val Leu Thr Pro

180 185 190

Val Met Thr Leu Ser Ser Leu Thr Leu Phe Val Trp Val Arg Arg Ser

195 200 205

Ser Gln Gln Trp Arg Arg Gln Pro Thr Arg Leu Phe Val Val Val Leu

210 215 220

Ala Ser Val Leu Val Phe Leu Ile Cys Ser Leu Pro Leu Ser Ile Tyr

225 230 235 240

Trp Phe Val Leu Tyr Trp Leu Ser Leu Pro Pro Glu Met Gln Val Leu

245 250 255

Cys Phe Ser Leu Ser Arg Leu Ser Ser Ser Val Ser Ser Ser Ala Asn

260 265 270

Pro Val Ile Tyr Phe Leu Val Gly Ser Arg Arg Ser His Arg Leu Pro

275 280 285

Thr Arg Ser Leu Gly Thr Val Leu Gln Gln Ala Leu Arg Glu Glu Pro

290

295

300

Glu Leu Glu Gly Gly Glu Thr Pro Thr Val Gly Thr Asn Glu Met Gly
305 310 315 320

Ala

SEQUENCES FROM OTHERS

<210> 3

<211> 325

<212> PRT

<213> Mus musculus

<400> 3

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Met Gly Phe Leu Ser Leu Ile Ile Ser Pro Val Gly Met Val Leu Asn
35 40 45

Ser Thr Val Leu Trp Phe Leu Gly Phe Gln Ile Arg Arg Asn Ala Phe
50 55 60

Ser Val Tyr Ile Leu Asn Leu Ala Gly Ala Asp Phe Leu Phe Leu His
65 70 75 80

Ser Gln Phe Leu Phe Tyr Leu Leu Ala Ile Phe Pro Ser Ile Pro Ile
85 90 95

Gln Ile Pro Leu Phe Phe Asp Met Leu Thr Lys Phe Ala Tyr Leu Ser
100 105 110

Gly Leu Ser Ile Leu Ser Thr Ile Ser Ile Glu Arg Cys Leu Cys Val
115 120 125

Met Trp Pro Ile Trp Tyr Arg Cys Gln Arg Pro Arg His Thr Ser Ser
 130 135 140

Val Thr Cys Ser Leu Leu Trp Ala Leu Ser Leu Leu Phe Ala Leu Leu
 145 150 155 160

Asp Gly Met Gly Cys Gly Leu Leu Phe Asn Ser Phe Asp Gln Ser Trp
 165 170 175

Cys Leu Lys Phe Asp Leu Ile Ile Cys Ala Trp Ser Ile Val Leu Phe
 180 185 190

Val Val Leu Cys Gly Ser Ser Leu Ile Leu Leu Val Arg Ile Phe Cys
195 200 205

Gly Ser Gln Gln Ile Pro Val Thr Arg Leu Tyr Val Thr Ile Ala Leu
210 215 220

Thr Val Leu Phe Phe Leu Ile Cys Cys Leu Pro Phe Gly Ile Ser Trp
 225 230 235 240

Ile Ile Gln Trp Ser Glu Thr Leu Ile Tyr Val Gly Phe Cys Asp Tyr
 245 250 255

Phe His Glu Glu Leu Phe Leu Ser Cys Ile Asn Ser Cys Ala Asn Pro
260 265 270

Ile Ile Tyr Phe Leu Val Gly Phe Ile Arg Gln Arg Lys Phe Gln Gln
275 280 285

Lys Ser Leu Lys Val Leu Leu Gln Arg Ala Met Glu Asp Thr Pro Glu
290 295 300

Glu Glu Asn Glu Asp Met Gly Pro Ser Arg Asn Pro Glu Glu Phe Glu
 305 310 315 320

Thr Val Cys Ser Asn
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<210> 4
<211> 330
<212> PRT
<213> *Homo sapiens*

<400> 4
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 1 5 10 15

Gly Asn Asp Gln Ala Leu Leu Leu Cys Gly Lys Glu Thr Leu Ile
20 25 30

Pro Val Phe Leu Ile Leu Phe Ile Ala Leu Val Gly Leu Val Gly Asn
25 40 45

Gly Phe Val Leu Trp Leu Leu Gly Phe Arg Arg Met Arg Asn Ala Phe
50 55 60

Ser Val Tyr Val Leu Ser Leu Ala Gly Ala Asp Phe Leu Phe Leu Cys
 65 70 75 80

Phe Gln Ile Ile Asn Cys Leu Val Tyr Leu Ser Asn Phe Phe Cys Ser
85 90 95

Ile Ser Ile Asn Phe Pro Ser Phe Phe Thr Thr Val Met Thr Cys Ala
 100 105 110

Tyr Leu Ala Gly Leu Ser Met Leu Ser Thr Val Ser Thr Glu Arg Cys
 115 120 125

Leu Ser Val Leu Trp Pro Ile Trp Tyr Arg Cys Arg Arg Pro Arg His
130 135 140

Leu Ser Ala Val Val Cys Val Leu Leu Trp Ala Leu Ser Leu Leu Leu
145 150 155 160

Ser Ile Leu Glu Gly Lys Phe Cys Gly Phe Leu Phe Ser Asp Gly Asp
165 170 175

Ser Gly Trp Cys Gln Thr Phe Asp Phe Ile Thr Ala Ala Trp Leu Ile
180 185 190

Phe Leu Phe Met Val Leu Cys Gly Ser Ser Leu Ala Leu Leu Val Arg
195 200 205

Ile Leu Cys Gly Ser Arg Gly Leu Pro Leu Thr Arg Leu Tyr Leu Thr
210 215 220

Ile Leu Leu Thr Val Leu Val Phe Leu Leu Cys Gly Leu Pro Phe Gly
225 230 235 240

Ile Gln Trp Phe Leu Ile Leu Trp Ile Trp Lys Asp Ser Asp Val Leu
245 250 255

Phe Cys His Ile His Pro Val Ser Val Val Leu Ser Ser Leu Asn Ser
260 265 270

Ser Ala Asn Pro Ile Ile Tyr Phe Phe Val Gly Ser Phe Arg Lys Gln
275 280 285

Trp Arg Leu Gln Gln Pro Ile Leu Lys Leu Ala Leu Gln Arg Ala Leu
290 295 300

Gln Asp Ile Ala Glu Val Asp His Ser Glu Gly Cys Phe Arg Gln Gly
305 310 315 320

Thr Pro Glu Met Ser Arg Ser Ser Leu Val

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330

<210> 5

<211> 993

<212> DNA

<213> Mus musculus

<400> 5

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<210> 6

<211> 966

<212> DNA

<213> Homo sapiens

<400> 6

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<211> 978
<212> DNA
<213> Mus musculus

<400> 7
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| atcatccaaat ggagtgaaac tttgatataat gtggattttt gtgatttattt tcacgaggaa 780 | |
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| atccgtcagc gaaagttcca acagaagtct ctgaagggtgc ttcttcaaag agcgatggag 900 | |
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<211> 1770

<212> DNA

<213> Homo sapiens

<400> 8

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| ctgagcatgc tgagcacccgt cagcacccggc cgctgcctgtt ccgttgcgttgc gccccatctgg 480 | |
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TOKYO UNIVERSITY LIBRARIES

<210> 9

<211> 24

<212> DNA

<213> Mus musculus

<400> 9

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<210> 10

<211> 20

<212> DNA

<213> Mus musculus

<400> 10

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<210> 11

<211> 19

<212> DNA

<213> Mus musculus

<400> 11

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<210> 12
<211> 20
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<213> Mus musculus

<400> 12
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<210> 13
<211> 21
<212> DNA
<213> Homo sapiens

<400> 13
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<210> 14
<211> 21
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<400> 14
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<210> 15
<211> 653
<212> DNA
<213> Mus musculus

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cagtgtcac tccaaagcca cctctgaggc ccaggttaga gctcttcata aaggctctgc 180
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aaaaggcacc cgccagaggag aaaaacccaa agggtcanca agatgggcac atgaaatctg 480
gnaagctta tntgccccag cgccacaaaa acaacctggc canaaaaaac cnngnntgg 540
cangacnggg nncccnccc caaaaanttt tttttttttt ctgnccnggg gnngncctt 600
tnnaaagccc atntttccna ccacccctng ggnngggcc ntttttttt ggg 653

DNA sequence database

<210> 16
<211> 22
<212> DNA
<213> Homo sapiens

<400> 16
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<210> 17
<211> 21
<212> DNA
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<400> 17
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<210> 18
<211> 25
<212> DNA
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<400> 18
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<210> 19
<211> 20
<212> DNA
<213> Homo sapiens

<400> 19
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20

<210> 20
<211> 24
<212> DNA
<213> Homo sapiens

<400> 20
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<210> 21
<211> 20
<212> DNA
<213> Homo sapiens

<400> 21
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20